

MR2919-17

Serial Number: 09/416,098

Reply to Office Action dated 9 August 2006

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This case has been carefully reviewed and analyzed in view of the Office Action dated 9 August 2006. Responsive to that Office Action, Claims 2 and 16 are additionally cancelled from this case, and the remaining Claims 1, 4-5, 8-9, 15, 18-19, 22-23, 29, 31, and 34-35 are amended for further prosecution. It is believed that with such amendment of Claims, there is a further clarification of their recitations.

In the Office Action, the Examiner objected to Claims 5 and 15 for containing certain informalities. It is believed that the amendments hereby incorporated into the Claims now obviate the Examiner's formal concerns.

The Examiner rejected Claim 4 under 35 U.S.C. § 112, first paragraph, for containing subject matter not adequately described in the Specification. More specifically, the Examiner stated that the recitation of "means for performing a correlation" is not found in the Specification. It is respectfully submitted that support for the recitation is in fact found at least at page 8, lines 8-20 of the Specification as originally filed. The description there refers in part to "digital correction of carrier frequency offsets" and to "the correlation between the received and detected data" in that regard. Accordingly, withdrawal of this rejection is respectfully requested.

Also in the Office Action, the Examiner rejected Claims 1-2, 4-5, 8, 15-16, 18-19, 22, and 34-35 under 35 U.S.C. § 102(e) as being unpatentable over the

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Knutson, et al. reference. The Examiner additionally rejected Claim 29 under 35 U.S.C. § 103(a) as being unpatentable over Knutson, et al. in view of the Jones, et al. reference. In setting forth the latter rejection, the Examiner acknowledged that Knutson, et al. fails to specifically disclose the use of a frequency locked loop. The Examiner cited Jones, et al. for disclosing this feature and concluded that it would have been obvious to one of ordinary skill in the art to have incorporated as much into the Knutson, et al. system.

The Examiner further rejected under 35 U.S.C. § 103(a): Claim 31 as being unpatentable over Knutson, et al. in view of Jones, et al., further in view of the Evans, et al. reference, and Claims 9 and 23 as being unpatentable over Knutson, et al. in view of Evans, et al. In setting forth these rejections, the Examiner cited Evans, et al. for disclosing the use of a crystal oscillator to supply a reference frequency for modulation, a variably adjustable device, and the referenced frequency's adjustment in accordance with an offset signal to correct error. The Examiner concluded in each case that it would have been obvious to one of ordinary skill in the art to have combined the features with those of the other reference(s) cited.

As each of the newly-amended independent Claims now more clearly recites, Applicants' method and device include among their combinations of features the use of both "a common carrier frequency and a common sampling frequency" at remotely disposed transceiver units, and the generation of "offsets

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between respective common frequency references" locally "used for the carrier and sampling frequencies" at those transceiver units. The device and method also include among their combinations of features adjusting both the common carrier and sampling frequencies "in accordance with the ... offsets" and appropriately applying them to one or more signals transmitted between the transceiver units, such that "the effects ... of the offsets to be perceived" by the recipient "will be substantially reduced in preemptive manner," as each of the newly-amended independent Claims also now more clearly recites.

The full combination of these and other features now more clearly recited by Applicants' pending Claims is nowhere disclosed by the cited references. Note in this regard that while the primarily-cited reference applies a prerotation to a transmitted signal for addressing an offset in a carrier frequency, other errors, such as phase errors, clearly remain locally "tracked" at each handset (Column 5, line 26). The reference nowhere provides for obtaining and preemptively transmitting frequency offset information for a "common sampling frequency" as well as for a common carrier frequency, as recited by Applicants' Claims.

Given such deficient and contrary teachings of the primarily-cited Knutson, et al. reference, the disclosures of the secondarily-cited Jones, et al. and Evans, et al. references are found to be wholly ineffectual to the present patentability analysis. These references were cited for disclosing certain isolated features, and

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do not anywhere even suggest the preemptive reduction of both sampling frequency and carrier frequency offsets shared in the manner claimed.

It is respectfully submitted, therefore, that the cited Knutson, et al., Jones, et al., and Evans, et al. references, even when taken together, fail to disclose the unique combination of elements now more clearly recited by Applicants' pending Claims for the purposes and objectives disclosed in the subject Application.

It is now believed that the subject Patent Application has been placed fully in condition for allowance, and such action is respectfully requested.

If there are any further charges associated with this filing, the Honorable Commissioner for Patents is hereby authorized to charge Deposit Account #18-2011 for such charges.

Respectfully submitted,
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Date

12/11/2006

Jun Y. Lee